

In re Patent Application of
GORSUCH ET AL.
Serial No. **Not Yet Assigned**
Filed: **Herewith**

In the Claims:

Claims 1-2 (Cancelled).

3. (New) A code division multiple access (CDMA) user device comprising:
a CDMA transceiver;
a controller connected to said CDMA transceiver;
communication session establishment software for establishing a communication session with a base station, the communication session comprising a plurality of layers including a physical layer;

bandwidth negotiation software for negotiating with the base station an allocated bandwidth for said CDMA transceiver;

physical layer connection software for establishing and releasing a physical layer connection between said CDMA transceiver and the base station; and

state maintenance software for maintaining a state of at least one other layer during the communication session after termination of the physical layer.

4. (New) A CDMA user device according to Claim 3, wherein said bandwidth negotiation software comprises a routine for facilitating an assignment of at least one radio link to said CDMA transceiver in a CDMA channel.

5. (New) A CDMA user device according to Claim 4, wherein the at least one radio link comprises a plurality of radio links having different bandwidths.

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6. (New) A CDMA user device according to Claim 3, wherein said bandwidth negotiation software comprises a routine for facilitating an assignment of at least one CDMA subchannel in a CDMA channel.

7. (New) A CDMA user device according to Claim 6, wherein the at least one CDMA subchannel comprises a plurality of CDMA subchannels having different bandwidths.

8. (New) A CDMA user device according to Claim 3, wherein said state maintenance software is operable upon termination of the physical layer.

9. (New) A CDMA user device according to Claim 8, wherein said bandwidth negotiation software comprises a routine that communicates a requested bandwidth to the base station.

10. (New) A CDMA user device according to Claim 3, wherein said CDMA transceiver simultaneously transmits control, voice and data information.

11. (New) A CDMA user device according to Claim 8, wherein said CDMA transceiver simultaneously transmits control and data information on separate CDMA subchannels.

12. (New) A CDMA user device according to Claim 3, further comprising a channel multiplexer for multiplexing user information over a plurality of CDMA subchannels.

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13. (New) A CDMA user device according to Claim 12, wherein the user information comprises voice and data.

14. (New) A CDMA user device according to Claim 3, further comprising a personal digital assistant (PDA) connected to said controller.

15. (New) A code division multiple access (CDMA) user device comprising:
a CDMA transceiver; and
a controller connected to said CDMA transceiver for
establishing a communication session with
a base station, the communication session comprising
a plurality of layers including a physical layer,
negotiating with the base station an
allocated bandwidth for said CDMA transceiver,
establishing and releasing a physical
layer connection between said CDMA transceiver and
the base station, and
maintaining a state of at least one other
layer during the communication session after
termination of the physical layer.

16. (New) A CDMA user device according to Claim 15, wherein said controller facilitates an assignment of at least one radio link to said CDMA transceiver in a CDMA channel.

17. (New) A CDMA user device according to Claim 16, wherein the at least one radio link comprises a plurality of radio links having different bandwidths.

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18. (New) A CDMA user device according to Claim 15, wherein said controller facilitates an assignment of at least one CDMA subchannel in a CDMA channel.

19. (New) A CDMA user device according to Claim 18, wherein the at least one CDMA subchannel comprises a plurality of CDMA subchannels having different bandwidths.

20. (New) A CDMA user device according to Claim 15, wherein said controller maintains the state of the at least one other layer after termination of the physical layer.

21. (New) A CDMA user device according to Claim 20, wherein said controller communicates a requested bandwidth to the base station.

22. (New) A CDMA user device according to Claim 15, wherein said CDMA transceiver simultaneously transmits control, voice and data information.

23. (New) A CDMA user device according to Claim 22, wherein said CDMA transceiver simultaneously transmits control and data information on separate CDMA subchannels.

24. (New) A CDMA user device according to Claim 15, further comprising a channel multiplexer for multiplexing user information over a plurality of CDMA subchannels.

25. (New) A CDMA user device according to Claim 24, wherein the CDMA user information comprises voice and data.

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26. (New) The user device according to Claim 15, further comprising a personal digital assistant (PDA) connected to said controller.

27. (New) A code division multiple access (CDMA) user device comprising:
a personal digital assistant (PDA);
a controller connected to said PDA;
a CDMA transceiver connected to said controller; and
bandwidth allocation software implementing a state machine including at least one state in which status of at least one layer of a communication session above a physical layer is maintained upon termination of the physical layer.

28. (New) A CDMA user device according to Claim 27, wherein the state machine further includes a bandwidth request state.

29. (New) A CDMA user device according to Claim 28, wherein said CDMA transceiver transmits over a first subchannel having a first bandwidth, and a second subchannel having a second bandwidth larger than said first bandwidth.

30. (New) A CDMA user device according to Claim 29, wherein said CDMA transceiver simultaneously transmits on the first and second subchannels.

31. (New) A CDMA user device according to Claim 27, further comprising a data buffer.

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32. (New) A CDMA user device according to Claim 31,
further comprising a monitor to detect a rate at which said
buffer is filled.